IN THE CLAIMS:

Please amend claim1 and add new claim 14 as follows:

1. (Previously Presented) A synchronous signal generator converting an output which is a sine wave from a crystal oscillator of an oscillation frequency f into a pulse of a rectangular—wave from waveform by a pulse converter,

wherein the output which is a sine wave from the crystal oscillator is passed through a crystal filter equal to an AT-cut crystal piece in cutting angle and equal to the oscillation frequency f in center frequency f0, and is input into the pulse converter, and output a pulse with the jitter reduced.

- 2. (Original) The synchronous signal generator according to claim 1, wherein said filter is a crystal filter equal to the crystal oscillator in frequency-temperature characteristic.
- 3. (Original) The synchronous signal generator according to claim 2, wherein respective crystal pieces used for the crystal oscillator and the crystal filter have an equal cutting angle.
- 4. (Original) The synchronous signal generator according to claim 1, wherein said oscillation frequency f is equal to a frequency of a fundamental wave component output from the crystal oscillator.

- 5. (Original) The synchronous signal generator according to claim 1, wherein said pulse converter is a complementary output driver IC.
- 6. (Previously Presented) A synchronous signal generator, comprising:
 a crystal oscillator unit oscillating an output signal having an oscillation
 frequency f;

a crystal filter unit equal to an AT-cut crystal piece in cutting angle and converting an output signal from the crystal oscillator unit into a signal close to an ideal sine wave having the oscillation frequency f with the jitter reduced, and outputting the converted signal; and

a pulse conversion unit outputting a pulse of a rectangular waveform based on output of said filter unit.

- 7. (Original) The synchronous signal generator according to claim 6, wherein said filter unit converts the signal such that a level of specific frequency component in the output signal from said crystal oscillator unit can be relatively higher than levels of other frequency components, and outputs a resultant signal.
- 8. (Original) The synchronous signal generator according to claim 7, wherein said filter unit is a band pass filter having an oscillation frequency of said synchronous signal generator as a center frequency.

- 9. (Original) The synchronous signal generator according to claim 6 wherein said filter unit is equal to said crystal oscillator unit in frequency-temperature characteristic.
- 10. (Original) The synchronous signal generator according to claim 9 wherein said filter unit is formed by a crystal filter equal to said crystal oscillator unit in cutting angle of crystal piece.
- 11. (Previously Presented) A synchronous signal generator, comprising:

 crystal oscillator means for oscillating an output signal having an oscillation frequency of f;

crystal filter means equal to an AT-cut crystal piece in cutting angle and for converting an output signal from the crystal oscillator means into a signal close to an ideal sine wave having the oscillation frequency f with the jitter reduced, and outputting the converted signal; and

pulse conversion means for outputting a pulse of a rectangular waveform based on output of said filter means.

12. (Previously Presented) A synchronous signal generating method obtaining a synchronous signal from output of crystal oscillator unit oscillating an output signal having an oscillation frequency f, comprising:

converting an output signal close to an ideal sine wave having the oscillation frequency f with the jitter reduced by passing the output signal through a crystal filter equal to an AT-cut crystal piece in a cutting angle; and

converting the converted signal into a pulse signal of a rectangular waveform.

- 13. (Previously Presented) The synchronous signal generator according to claim 1, wherein a circuit of said filter has a center frequency equal to an initial basic frequency of the crystal of said crystal oscillator.
- 14. (New) A synchronous signal generator converting an output which is a sine wave from a crystal oscillator of an oscillation frequency f into a pulse of a rectangular waveform by a pulse converter,

wherein the output which is a sine wave from the crystal oscillator is passed through a crystal filter equal to an AT-cut crystal piece in cutting angle, equal to the oscillation frequency f in center frequency f0, and equal to the crystal oscillator in frequency-temperature characteristic indicating a curve having an inflection point around the ambient temperature, a maximum value on the low temperature side, and a minimum value on the high temperature side, and is input into the pulse converter, and output a pulse with the jitter reduced.